

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,028	12/14/2004	Giancarlo Rizzoli	2579.011US1	4654
21188 7590 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938			EXAMINER	
			MAHYERA, TRISTAN J	
MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER	
			1615	
			MAIL DATE	DELIVERY MODE
			01/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/510,028 RIZZOLI ET AL. Office Action Summary Examiner Art Unit TRISTAN J. MAHYERA 1615

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1-136(g), in no event, however, may a reply be timely filed after SX (6) MONTHS from the making date of this communication. If NO period for reply is specified above, the meaning attack of princed will apply and will expire SX (6) MONTHS from the making date of this communication. If NO period for reply is specified above, the meaning state of princed will apply and will expire SX (6) MONTHS from the making date of this communication and the specified state of the specified state of the specified on the scores MAMIONNED (35 U.SC, § 133). Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any earned patter them adjustment. See 37 CFR 1-704(b).
Status
1) Responsive to communication(s) filed on 10 October 2008.
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4)⊠ Claim(s) <u>1-56</u> is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6) Claim(s) is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) <u>1-56</u> are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No.
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SE/C8) Paper No(s)/Mail Date _____

 Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____. 5) Notice of Informal Patent Application

6) Other: _____

Application/Control Number: 10/510,028 Page 2

Art Unit: 1615

DETAILED ACTION

Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

1 – A specific calcium-containing ceramic particle. The species are given in claims 25-30. A single disclosed species is required to be elected, or a combination of calcium-phosphates, calcium-sulfates and/or calcium-carbonates, where each member of the combination is specifically elected to give a complete and specific calcium-containing particle.

- 1A If a calcium-phosphate particle is elected, the molar Ca/P relationship must be disclosed and the claims readable on the relationship identified.
- 1B For any calcium-containing particle elected the following properties readable on the election must be identified:
 - a) Pore size in claims 7 or 8
 - b) Bulk density in claims 12 or 13
 - c) Jarring density in claims 15 or 16
 - d) Average diameter in claims 18-20 or a specific disclosed combination in claim 21

Page 3

Application/Control Number: 10/510,028

Art Unit: 1615

2 – A specific hydrogel or substance which can be swelled into a hydrogel consisting of the species in claims 36-39, 43

2A – For any hydrogel elected the following properties readable on the election must be identified:

- a) Water content in claims 44 or 45
- b) Molecular weight in claims 41, 42, 46, 47 or 48
- c) Weight relationship A/B in claims 51, 52, 53, 54, 55 or 56

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The common technical feature is not novel. The common technical feature is claim 1 comprising a non-spherical synthetic porous ceramic particle and a hydrogel. A common technical feature known in the art, as is the case here, cannot be a special technical feature. The prior art, e.g. DORIGATTI et al. (WO 93/20858 see PTO/SB/08) teach the use of hyaluronic acid in combination with artificial porous bone granules in a moldable paste to promote growth

and repair of damaged bone tissue. See e.g. abstract, page 6 line 33 to page 7 line 3. While DORIGATTI does not explicitly state non-spherical shapes BEARCROFT et al. (WO 01/66044 see PTO-892) teaches a shaped particle that is non-spherical to repair a bone deficiency whereby the non-spherical shape facilitates interlocking of adjacent particles in a matrix of shaped particles. See e.g. page 8 lines 1-24. Therefore, the technical feature of the groups do not make a contribution over the prior art.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRISTAN J. MAHYERA whose telephone number is 571-270-1562. The examiner can normally be reached on Monday through Thursday 9am-4om EST.

Application/Control Number: 10/510,028 Page 5

Art Unit: 1615

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL P. WOODWARD can be reached on 571-272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Information regarding the status of an application may be obtained from the

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tristan J Mahyera/ Examiner, Art Unit 1615 /MP WOODWARD/ Supervisory Patent Examiner, Art Unit 1615